OIPE

RAW SEQUENCE LISTING DATE: 12/03/2001
PATENT APPLICATION: US/09/887,880 TIME: 13:44:05

Input Set : A:\65340.txt
Output Set: N:\CRF3\11212001\I887880.raw

ENTERED

```
      3 <110> APPLICANT: Conaty, Jason Francis
      4       Hendry, Philip
      5       Lockett, Trevor John
      7 <120> TITLE OF INVENTION: MINIRIBOZYMES ACTIVE AT LOW MAGNESIUM ION CONCENTRATIONS
      9 <130> FILE REFERENCE: 65340
C--> 11 <140> CURRENT APPLICATION NUMBER: US/09/887,880
     12 <141> CURRENT FILING DATE: 2001-06-22
     14 <160> NUMBER OF SEQ ID NOS: 74
     16 <170> SOFTWARE: PatentIn version 3.1
     18 <210> SEQ ID NO: 1
     19 <211> LENGTH: 15
     20 <212> TYPE: RNA
     21 <213> ORGANISM: Artificial Sequence
     23 <220> FEATURE:
     24 <223> OTHER INFORMATION: ribozyme
     26 <220> FEATURE:
     27 <221> NAME/KEY: misc_feature
     28 <222> LOCATION: (8)..(9)
     29 <223> OTHER INFORMATION: n = c, g, a, u/t
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     33 <221> NAME/KEY: misc_feature
     34 <222> LOCATION: (10)..(11)
     35 <223> OTHER INFORMATION: h = c, a, u/t
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W--> 39 cugagagnnh hcgaa                                              15
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     64 <222> LOCATION: (10)..(12)
     65 <223> OTHER INFORMATION: h = c, a, u/t
     68 <400> SEQUENCE: 2
W--> 69 cugagaghnh hhcgaa                                             16
     72 <210> SEQ ID NO: 3
     73 <211> LENGTH: 65
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74 <212> TYPE: DNA
75 <213> ORGANISM: Artificial Sequence
77 <220> FEATURE:
78 <223> OTHER INFORMATION: N18gOT65mer (T3 promoter)
80 <220> FEATURE:
81 <221> NAME/KEY: misc_feature
82 <222> LOCATION: (19)..(36)
83 <223> OTHER INFORMATION: n = c, g, a, t
86 <400> SEQUENCE: 3
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89 taatt 65
92 <210> SEQ ID NO: 4
93 <211> LENGTH: 29
94 <212> TYPE: RNA
95 <213> ORGANISM: Artificial Sequence
97 <220> FEATURE:
98 <223> OTHER INFORMATION: IL2bioS29mer (cleavage substrate)
100 <400> SEQUENCE: 4
101 cucgguaccg uugauccugu cuugcauaa 29
104 <210> SEQ ID NO: 5
105 <211> LENGTH: 66
106 <212> TYPE: DNA
107 <213> ORGANISM: Artificial Sequence
109 <220> FEATURE:
110 <223> OTHER INFORMATION: N4gOT66mer (T7 promoter)
112 <220> FEATURE:
113 <221> NAME/KEY: misc_feature
114 <222> LOCATION: (25)..(28)
115 <223> OTHER INFORMATION: n = c, g, a, t
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W--> 119 ctcggtaccg ttgatcctgt ttcgnnnnct catcagttgc attgggccct atagtgattc 60
121 gtatta 66
124 <210> SEQ ID NO: 6
125 <211> LENGTH: 69
126 <212> TYPE: DNA
127 <213> ORGANISM: Artificial Sequence
129 <220> FEATURE:
130 <223> OTHER INFORMATION: N5gOT 67-mer (T7 promoter)
132 <220> FEATURE:
133 <221> NAME/KEY: misc_feature
134 <222> LOCATION: (27)..(31)
135 <223> OTHER INFORMATION: all n = c, g, a, t
138 <400> SEQUENCE: 6
W--> 139 mrctcggtac cgttgatcct gtttcgnnnn nctcatcagt tgcattgggc cctatagtga 60
141 gtcgtatta 69
144 <210> SEQ ID NO: 7
145 <211> LENGTH: 15
146 <212> TYPE: DNA
147 <213> ORGANISM: Artificial Sequence

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Input Set : A:\65340.txt
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149 <220> FEATURE:
150 <223> OTHER INFORMATION: T3 15mer (T7 promoter)
152 <400> SEQUENCE: 7
153 aattaaccct cacta 15
156 <210> SEQ ID NO: 8
157 <211> LENGTH: 17
158 <212> TYPE: DNA
159 <213> ORGANISM: Artificial Sequence
161 <220> FEATURE:
162 <223> OTHER INFORMATION: P1 17mer (T7 promoter)
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165 ctcggtaccg ttgatcc 17
168 <210> SEQ ID NO: 9
169 <211> LENGTH: 38
170 <212> TYPE: DNA
171 <213> ORGANISM: Artificial Sequence
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174 <223> OTHER INFORMATION: P2 38mer (T7 promoter)
176 <400> SEQUENCE: 9
177 gagggatcct aatacgactc actataggcc caatgcaa 38
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181 <211> LENGTH: 40
182 <212> TYPE: DNA
183 <213> ORGANISM: Artificial Sequence
185 <220> FEATURE:
186 <223> OTHER INFORMATION: P3 40mer (T7 promoter)
188 <400> SEQUENCE: 10
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192 <210> SEQ ID NO: 11
193 <211> LENGTH: 17
194 <212> TYPE: RNA
195 <213> ORGANISM: Artificial Sequence
197 <220> FEATURE:
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201 uugcgagucc acacugg 17
204 <210> SEQ ID NO: 12
205 <211> LENGTH: 19
206 <212> TYPE: RNA
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209 <220> FEATURE:
210 <223> OTHER INFORMATION: IL2S19 (19mer substrate)
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213 aacuccuguc uugcauugc 19
216 <210> SEQ ID NO: 13
217 <211> LENGTH: 15
218 <212> TYPE: RNA
219 <213> ORGANISM: Artificial Sequence
221 <220> FEATURE:

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Input Set : A:\65340.txt
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222 <223> OTHER INFORMATION: IL2S15 (15mer substrate)
224 <400> SEQUENCE: 13
225 uccugucuug cauug 15
228 <210> SEQ ID NO: 14
229 <211> LENGTH: 34
230 <212> TYPE: RNA
231 <213> ORGANISM: Artificial Sequence
233 <220> FEATURE:
234 <223> OTHER INFORMATION: KrMc10 (34mer miniribozyme)
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237 uccagugugc ugaugaggua acgaaacucg caaa 34
240 <210> SEQ ID NO: 15
241 <211> LENGTH: 42
242 <212> TYPE: DNA
243 <213> ORGANISM: Artificial Sequence
245 <220> FEATURE:
246 <223> OTHER INFORMATION: KrRz (42mer ribozyme)
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249 cuccagugug cugaugaguc cuuuuggacg aaacucgcaa at 42
252 <210> SEQ ID NO: 16
253 <211> LENGTH: 34
254 <212> TYPE: DNA
255 <213> ORGANISM: Artificial Sequence
257 <220> FEATURE:
258 <223> OTHER INFORMATION: IL2Mc10 (34mer miniribozyme)
260 <400> SEQUENCE: 16
261 gcaaugcaac ugaugaggua acgaaacagg agut 34
264 <210> SEQ ID NO: 17
265 <211> LENGTH: 40
266 <212> TYPE: DNA
267 <213> ORGANISM: Artificial Sequence
269 <220> FEATURE:
270 <223> OTHER INFORMATION: IL2Rz (40mer ribozyme)
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273 gcaaugcaac ugaugagucc uuuuggacga aacaggagut 40
276 <210> SEQ ID NO: 18
277 <211> LENGTH: 36
278 <212> TYPE: DNA
279 <213> ORGANISM: Artificial Sequence
281 <220> FEATURE:
282 <223> OTHER INFORMATION: PDGF293 MR1 (36-mer miniribozyme)
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288 <210> SEQ ID NO: 19
289 <211> LENGTH: 36
290 <212> TYPE: DNA
291 <213> ORGANISM: Artificial Sequence
293 <220> FEATURE:
294 <223> OTHER INFORMATION: PDGF293 MR2 (36-mer miniribozyme)

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Input Set : A:\65340.txt
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296 <400> SEQUENCE: 19
297 cagcuuccuc cugaugaggt aacgaaaugc uucuct 36
300 <210> SEQ ID NO: 20
301 <211> LENGTH: 36
302 <212> TYPE: DNA
303 <213> ORGANISM: Artificial Sequence
305 <220> FEATURE:
306 <223> OTHER INFORMATION: PDGF293 MR3 (36-mer miniribozyme)
308 <400> SEQUENCE: 20
309 cagcttcctc cugaugaggt aacgaaaugc ttctct 36
312 <210> SEQ ID NO: 21
313 <211> LENGTH: 36
314 <212> TYPE: DNA
315 <213> ORGANISM: Artificial Sequence
317 <220> FEATURE:
318 <223> OTHER INFORMATION: PDGF293 MR4 (36-mer miniribozyme)
320 <400> SEQUENCE: 21
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324 <210> SEQ ID NO: 22
325 <211> LENGTH: 34
326 <212> TYPE: DNA
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: PDGF293 MR5 (36-mer miniribozyme)
332 <220> FEATURE:
333 <221> NAME/KEY: modified_base
334 <222> LOCATION: (19)..(19)
335 <223> OTHER INFORMATION: um
338 <220> FEATURE:
339 <221> NAME/KEY: modified_base
340 <222> LOCATION: (21)..(21)
341 <223> OTHER INFORMATION: fC= 2' fluorocytidine
344 <400> SEQUENCE: 22
345 cagcuuccuc cugaugagua cgaaaugcuu cuct 34
348 <210> SEQ ID NO: 23
349 <211> LENGTH: 40
350 <212> TYPE: DNA
351 <213> ORGANISM: Artificial Sequence
353 <220> FEATURE:
354 <223> OTHER INFORMATION: PDGF293 MR6 (38-mer miniribozyme)
356 <220> FEATURE:
357 <221> NAME/KEY: modified_base
358 <222> LOCATION: (12)..(13)
359 <223> OTHER INFORMATION: ps=phosphorothioate linkage
362 <220> FEATURE:
363 <221> NAME/KEY: modified_base
364 <222> LOCATION: (1)..(1)
365 <223> OTHER INFORMATION: cm
368 <220> FEATURE:

Use of n and / or Xaa has been detected in the Sequence Listing. Review the Sequence Listing to ensure a corresponding explanation is present in the <220> to <223> fields of each sequence using n or Xaa.

VERIFICATION SUMMARY DATE: 12/03/2001
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Input Set : **A:\65340.txt**
Output Set: **N:\CRF3\11212001\I887880.raw**

L:11 M:270 C: Current Application Number differs, Replaced Current Application Number
L:39 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:1
L:69 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:2
L:87 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:3
L:119 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:5
L:139 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:6
L:1623 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:73
L:1641 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:74